

# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/US2004/029047

A. CLASSIFICATION OF SUBJECT MATTER  
IPC 7 C07K1/02 C07K14/505

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 C07K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, BIOSIS, EMBASE, WPI Data, PAJ, CHEM ABS Data

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	MILLER JUSTIN S ET AL: "Toward fully synthetic N-linked glycoproteins." ANGEWANDTE CHEMIE (INTERNATIONAL ED. IN ENGLISH) 27 JAN 2003, vol. 42, no. 4, 27 January 2003 (2003-01-27), pages 431-434, XP002323695 ISSN: 0570-0833 Scheme 1 the whole document ----- -/--	1-40

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

### \* Special categories of cited documents :

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
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- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
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- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
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Date of the actual completion of the international search

7 April 2005

Date of mailing of the international search report

21/04/2005

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	MARCAURELLE LISA A ET AL: "Recent advances in the chemical synthesis of mucin-like glycoproteins" GLYCOBIOLOGY, vol. 12, no. 6, June 2002 (2002-06), pages 69R-77R, XP002323696 ISSN: 0959-6658 Scheme 4 figures 8,9 -----	1-40
X	HOJO H ET AL: "The first synthesis of peptide thioester carrying N-linked core pentasaccharide through modified Fmoc thioester preparation: synthesis of an N-glycosylated Ig domain of emmprin" TETRAHEDRON LETTERS, ELSEVIER SCIENCE PUBLISHERS, AMSTERDAM, NL, vol. 44, no. 14, 31 March 2003 (2003-03-31), pages 2961-2964, XP004414421 ISSN: 0040-4039 figure 4 -----	1-40
X	SHIN Y ET AL: "Fmoc-based synthesis of peptide-( $\alpha$ )thioesters: Application to the total chemical synthesis of a glycoprotein by native chemical ligation" JOURNAL OF THE AMERICAN CHEMICAL SOCIETY 22 DEC 1999 UNITED STATES, vol. 121, no. 50, 22 December 1999 (1999-12-22), pages 11684-11689, XP002323697 ISSN: 0002-7863 the whole document -----	1-40
X	WO 96/34878 A (THE SCRIPPS RESEARCH INSTITUTE; KENT, STEPHEN, B., H; MUIR, TOM, W; DA) 7 November 1996 (1996-11-07) the whole document -----	1-3,8-34
X	WO 02/19963 A (GRYPHON SCIENCES; KOCHENDOERFER, GERD; BOTTI, PAOLO; BRADBURN, JAMES,) 14 March 2002 (2002-03-14) the whole document figure 1C -----	1-3,8-34

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